1					
1	Product Ty	oe Optic Cable			
<b>1</b>	Constructio	on			
		Dielectric			
		Tight Buffer			
		Singlemode or Multimode			
Description	Optical cable with singlemode or multimode optical fibers arranged in "tight" design. Optical fibers are coated with acrylate resin and a secondary coating of thermoplastic material. Dielectric strength members surround the set of fibers and a thermoplastic flame-retardant outer jacket covers it.				
Applications	Installation Environment	door			
		tallation in ducts and connection between entrance			
	<ul> <li>ITU-T G.652: "Characteristics of a single-mode optical fibre and cable"</li> <li>ITU-T G.657: "Characteristics of a bending loss insensitive single mode optical fibre and cable for the access network"</li> <li>ICEA S-83-596: "Standard for optical fiber cable premises distribution cable"</li> <li>Telcordia GR-409-CORE: "Generic requirements for indoor fiber optic cable"</li> </ul>				
Certifications	ETL Listed				
Constructive characterist					
Optical Fiber	SM (Singlemode), MM (Mu	ltimode) OM1, OM2, OM3 and OM4.			
Fiber Coating	Acrylate				
Fiber Identification	Fiber	Color			
	01	Blue			
	02	Orange			
	03	Green			
	04	Brown			
	05	Slate			
	06	White			
	07	Red			
	08	Black			
	09	Yellow			
	10	Violet Pink			
	11	Acqua			
	12	λύψυ			



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#### C

Cabling	Fiber Count	Sub-units Count		Fibers per sub-unit	
	2 a 12	2 a 12 Single core, no sub-units			
	16	4		4	
	24	4		6	
	36	6		6	
	48	4		12	
	72	6		12	2
Tensile Strength Yarns	of the same color ma #5 e #6). Dielectric yarns	aterial and sub-unt	s are indentified	d by numbers (	#1, #2, #3, #4,
Outer Jacket	Thermoplastic flame-retardant material. Outer and inner (when applicable) sheath color identification according to TIA-598-C, as table bellow.				
	CHARACTERISTIC	SINGLEMODE 9/125µm	MULTIMODE 50/125µm	MULTIMODE 62,5/125µm	MULTIMODE 50/125µm OM3/OM4
	Outer sheath color	YELLOW/	ORANGE	ORANGE	ACQUA
		YELLOW			
	Inner sheath color				



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	2 Fibers	4.
	4 Fibers	5.
	6 Fibers	5.
	8 Fibers	6.
	10 Fibers	6.
Nominal outer diameter (mm)	12 Fibers	6.
	16 Fibers	15
	24 Fibers	15
	36 Fibers	18
	48 Fibers	18
	72 Fibers	21
	2 Fibers	1
	4 Fibers	2
	6 Fibers	2
	8 Fibers	3
	10 Fibers	3
Nominal weight (kg/km)	12 Fibers	4
	16 Fibers	19
	24 Fibers	19
	36 Fibers	23
48 Fi		2
	72 Fibers	37
Outer jacket nominal thickness (mm)	2 to 12 Fibers	0.
Outer jacket nominal thickness (mm)	16 to 72 Fibers	1
Inner jacket nominal thickness - sub-unit jacket (mm)	16 to 72 Fibers	0.

Physical Characteristics	Minimum bending radius (mm)	- During Installation: 15 x outer diameter - After Installation: 10 x outer diameter	
	Maximum Tensile Load During Installation (kgf)	0.2 x cable weight	
	Installation Temperature	0 °C to 40 °C	
	Storage Temperature	0 °C to 40 °C	
	Operation Temperature	0 °C to 40 °C	

### **Optical Characteristics**

**Singlemode Optical Fiber Characteristics:** According ET 2000 - ANNEX A **Multimode Optical Fiber Characteristics:** According ET 1999 - ANNEX B



#### Marking

Outer Sheath:

#### "FURUKAWA FIBER-LAN INDOOR y wF z x month/year k LOTE nL (\*\*)"

Inner Sheath:

"#n"

Where:y = Type of optical fiberMM(50)50µm multimode fiberMM(62.5)62.5µm multimode fiberSMSinglemode fiberBLIBending Loss Insensitive fiber

w = Fiber count (2, 4, 6, 8, 10, 12, 16, 24, 36, 48 and 72)

x = Cable protection grade (COG, COR, COP, LSZH)

z= Denomination for special fiberG-652DFor SM ITU-T G.652.D fibersG-657A-1For SM ITU-T G.657 fibersGIGABITFor OM2+ (MM50) fibers with 1 Gbps transmission rate10 GIGABIT OM3For MM50 fibers with 10 Gbps transmission rate in 300m10 GIGABIT OM4For MM50 fibers with 10 Gbps transmission rate in 550m

month/year MM/YYYY

k = TYPE OFNR C(ETL)USNote: ETL Listed certificate applicable only for cables with PVC jacket and up to 12 fibers count.

nL = Lot number

(\*\*) = Length marking xxxxxx m

n = Sub-unit number (1, 2, 3, 4, 5 and 6) printed each 60mm

Package	Туре	Wooden reel
	Length	2, 4, 6, 8, 10 or 12 fiber count: 2100m ±5% 16, 24 or 36 fiber count: 900m ±5% 48 or 72 fiber count: 500m ±5%



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